

MAR 3 0 1999

Group 2700

Page 1 of 7

OMB No. 0651-0011

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Atty. Docket No. 07067.0003-02			Serial No.	08/982,	157		
Applicant	R	lichard R. Reisman					
Filing Date December 1, 1997		Group	2756				
			U.S. PATENT	DOCUMENTS			
Examiner Initial*	i	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
CHY		4,274,139	6/1981	Hodgkinson et al.	709	703	
		4,432,057	2/1984	Daniell et al.	707	8	
3 7 7200 7200 7200		4,558,413	12/1985	Schmidt et al.	707	203	
27 gris. 2 dries 2 dries 2 dries		4,604,686	8/1986	Reiter et al.	395	500.46	
1		4,714,992	12/1987	Gladney et al.	707	206	
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		4,714,995	12/1987	Materna et al.	- 707	201	
		4,745,559	5/1988	Willis et al.	705	37	
ž.	7	4,746,559	5/1998	Nishikawa	474	142	
		4,815,030	3/1989	Cross et al.	707	10	
Curtage Curtage Curtage		4,974,149	11/1990	Valenti	709	217	
Line.		5,008,814	4/1991	Mathur	709	221	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		5,008,853	4/1991	Bly et al.	345	331	
		5,019,963	5/1991	Alderson et al.	767	201	
		5,133,075	7/1992	Risch	707	201	
		5,155,847	10/1992	Kirouac et al.	709	221	
		5,187,787	2/1993	Skeen et al.	709	300	
		5,220,657	6/1993	Bly et al.	711	152	
		5,226,161	7/1993	Khoyi et al.	709.	303	
		5,257,369	10/1993	Skeen et al.	709	300	
		5,287,504	2/1994	Carpenter et al.	767	201	
,		5,303,379	4/1994	Khoyi et al.	395	710	
		5,359,730	10/1994	Marron	395	712	



CHY	5,404,488	4/1995	Kerrigan et al.	711	133E CEIVED
	5,426,747	6/1995	Weinreb et al.	711	203MAR 3 0 1999
	5,440,744	8/1995	Jacobson et al.	709	70Group 2700
	5,452,447	9/1995	Nelson et al.	707	705
	5,473,772	12/1995	Halliwell et al.	315	712
	5,485,370	1/1996	Moss et al.	709	217
	5,491,820	2/1996	Belove et al.	707	3
	5,495,610	2/1996	Shing et al.	709	221
	5,497,491	3/1996	Mitchell et al.	709	303
·	5,499,343	3/1996	Pettus	709	203
	5,515,508	5/1996	Pettus et al.	709	703
. 7 Alb.	5,519,769	5/1996	Weinberger et al.	379	112
12 12 12 12 12 12 12 12 12 12 12 12 12 1	5,519,875	5/1996	Yokoyama et al.	709	303
inag Tidadi Inaga Tidadi Tidadi	5,528,490	6/1996	Hill '	395	712
- 775 - 775 - 775	5,548,726	8/1996	Pettus	709	221
2 m2,	5,555,427	9/1996	Aoe et al.	709	201
	5,557,793	9/1996	Koerber	707	103
Track.	5,560,012	9/1996	Ryu et al.	395	70)
E TITLE E MARIE I MARIE	5,564,051	10/1996	Halliwell et al.	707	200
Çenê. Fiz	5,566,302	10/1996	Khalidi et al.	709	300
The state of the s	5,577,244	11/1996	Killebrew et al.	395	703
	5,581,755	12/1996	Koerber et al.	707	163
	5,581,761	12/1996	Radia et al.	395	702
	5,581,764	12/1996	Fitzgerald et al.	395	703
	5,586,311	12/1996	Davies et al.	707	
	5,586,326	12/1996	Ryu et al.	395	70)
	5,596,720	1/1997	Hamada et al.	709	206
	5,596,746	1/1997	Shen et al.	707	10)
	5,600,834	2/1997	Howard	707	201
,	5,608,874	3/1997	Ogawa et al.	709	246
V	5,615,112	3/1997	Liu Sheng et al.	767	104



0.1.7			<u> </u>		-60	
CHY		5,619,710	4/1997	Travis, Jr. et al.	709	703
		5,623,656	4/1997	Lyons	707	10
		5,623,661	4/1997	Hon	707	
		5,625,818	4/1997	Zarmer et al.	707	104
1		5,628,005	5/1997	Hurvig	707	8
		5,630,092	5/1997	Carreiro et al.	711	111
		5,630,116	5/1997	Takaya et al.	707	201
		5,634,010	5/1997	Ciscon et al.	704	223
		5,640,564	6/1997	Hamilton et al.	709	303
		5,644,764	7/1997	Johnson et al.	707	103
		5,649,192	7/1997	Stucky	707	103
in any		5,652,887	7/1997	Dewey et al.	704	303
		5,668,997	9/1997	Lynch-Freshner et al.	767	303
		5,673,322	9/1997	Pepe et al.	380	49
157 - 254 157 - 254 157 - 254 157 - 254 157 - 254 157 - 254		5,682,532	10/1997	Remington et al.	709	303
e e		5,684,984	11/1997	Jones et al.	707	10
: I		5,684,991	11/1997	Malcolm	707	204
21014 - 277 2 3 4 4		5,689,708	11/1997	Regnier et al.	709	279
- 122 E.		5,706,434	1/1998	Kremen et al.	709	218
5 T T		5,710,918	1/1998	Lagarde et al.	707	10
- 15 m 2"		5,721,911	2/1998	Ha et al.	707	100
		5,761,677	6/1998	Senator et al.	707	203
		5,761,678	6/1998	Bendert et al.	707	204
		5,862,325	1/1999	Reed et al.	709	701
		OTHER DOCUMENTS (in	cluding Aut	hor, Title, Date, Pertine	nt Pages,	Etc.)
CHY	/	C. Bowman, P. Danzig, D Customizable Discovery). Wessels	s "Harvest: A Scalable,
	/	D. Hardy & M. Schwartz "Customized Information Extraction as a Basis for Resource Discovery" Mar. 1994.				
	J	William G. Camargo "The	Harveset B	roker," Dec. 1994.		
V	4	D. Bulterman, G. van Ros Documents" US-ENIX, S	ssum and R. summer '91 N	van Liere "A Structure fo	r Transpo	rtable, Dynamic Multimedia

J

C	44 /	G. Almes and C. Holman "Edmas: An Object-Oriented, Locally Distributed Mail System" IEEE
		Transactions on Software Engineering, Sep. 1987. G. Almes, A. Black, C. Bunie and Weibe "Edmas: A Locally Distributed Mail System" IEEE, 1984.
	,	W. Bender, H. Lie, J. Orwant, L. Teodosio, & N. Abramson "Newspace: Mass Media and Personal
	✓	Computing," USENIX-Summer '91-Nashville TN.
	/	R. Thomas, H. Forsdick, T. Crowley, R. Schaaff, R. Tomlinson & V. Travers "Diamond: A Multimedia Message System Built on a Distributed Architecture" IEEE, Dec. 1994.
	V	S. Ramanathan & P.V. Rangan "Architectures for Personalized Multimedia" IEEE, 1994.
		N. Yankelovich, B. Haan, N. Meyrowitz & S. Drucker "Intermedia: The Concept and the Construction of a Seamless Information Environment" IEEE, Jan. 1988.
	1	D. Woelk, W. Kim & W. Luther, "An Object-Oriented Approach to MultiMedia Database," ACM 1986.
	Y	N. Borenstein, C. Everhart, J. Rosenberg, A. Stoller "A Multi-media Message System for Andrew" USENIX Winter Conference Feb., 1988.
	V	S. Jackson & N. Yankelovich "InterMail: A Prototype Hypermedia Mail System" Hypertext 91 Proceedings Dec. 1991.
t town (page to the page to th	/	E. Hoffert & G. Gretsch, "The Digital News System at Ed.ucom: A Convergence of Interactive Computing Newspaper, Television and High Speed Networks" Communications of the ACM Apr. 1991.
; ===== ; =============================	/	D. Crocker, E. Szurkowski & D. Farber "An Internetwork Memo Distribution Capability–MMDF" IEEE, ACM 1979.
‡ ‡	Y	Douglas Engelbart "Authorship Provisions in Augment" IEEEE, 1984.
	✓	J.J. Garcia–Luna–Aceves "Towards Computer–Based Multimedia Information Systems" Computer Message System 85, 1986.
	V	Debra P. Deutsch, "Implementing Distribution Lists in Computer-Based Message Systems," Computer-Based Message Services, IFIP, 1984.
	√	T. Purdy, D. Thorslund & N. Witchlow "Meridian SL Messaging" Computer Message Systems-85 IFIP, 1986.
	√	Michael Tschichholz "Message Handling System: Requirements to the User Agent" Computer Message Systems–85, IFIP, 1986.
	1	Lother Wosnitza "Group Communication in the MHS Context" Computer Message Systems 85 IFIP, 1986.
	V	Jacob Palme "Distribution Agents (mailing lists) in Message Handling Systems" Computer Message Systems 85 IFIP, 1986.
	✓	Teresa F. Lunt "A Model for Message System Security" Computer Message Systems 85 IFIP, 1986.
	V	A. Roger Kaye "A User Agent for Multiple Computer–Based Message Services" Computer–Based Message Services, IFIP 1984.
		Paul Wilson "Structure for Mailbox System Applications" Computer-Based Message Services, IFIP 1984.

Cr	44 /	J. Postel, G. Finn, A. Katz & J. Reynolds "The ISI Experimental Multimedia Mail System" Information Sciences Institute, Sep. 1986.
	/	E. Moeller, A. Scheller & G. Schurmann "Distributed Processing of Multimedia Information" IEEE Computer Society Proceedings May 28–Jun. 1, 1990.
	V.	Richard L. Phillips "An Interpersonal Multimedia Visualization System" IEEE Computer Graphics & Applications IEEE 1991.
	/	Jacob Palme "You Have 134 Unread Mail! Do You Want to Read Them Now?" Computer-Based Message Services IFIP, 1984.
	Y	M. Papa, G. Raguiccini, G. Corrente, M. Ferrise, S. Giurleo and D. Vitale "The Development of an Object-Oriented Multimedia Information System" Lecture Notes in Computer Science, Sep. 1994.
	/	Silvano Maffeis "A Flexible System Design to Support Object–Groups and Object–Oriented Distributed Programming" Lecture Notes in Computer Science, Jul. 1993.
		R. Gotze, H. Eirund & R. Claass in "Object-Oriented Dialog Control for Multimedia User Interfaces" Lecture Notes in Computer Science-Human Computer Interaction Sep. 1993.
		Chris Maeda "A Metaobject Protocol for Controlling File Cache Management" Lecture Notes in Computer Science, Mar. 1996.
C SEL	✓	A. Joseph, A. deLespinasse, J. Tauber, D. Gifford & M. Kaashoek "Rover" A Toolkit for Mobile Information Access SIGOPS '95 1995. ACM
T THE T	V	Wolfgang Lux "Adaptable Object Migration: Concept and Implementation" Operating Systems Review Apr. 1995.
: F	(R. Campbell, N. Islam, R. Johnson, P. Kougiouris & P. Madany "Choices, Frameworks and Refinement" Department of Computer Science, University of Illinois, Dec. 1991.
124) 124) 124)	/	Klemens Bohm & Thomas C. Rakow "Metadata for Multimedia Documents" SIGMOD Record, Vol. 23, No. 4, Dec. 1994.
	1	Simon Gibbs "Composite Multimedia and Active Objects" OOPSLA '91.
**************************************	1	T. Purdin, R. Schlichting & G. Andrews "A File Replication Facility for Berkeley Unix" Software Practice and Experience, Vol. 17, Dec. 1987.
	/	A. Black, N. Hutchinson, E. Jul & H. Levy "Object Structure in the Emerald System" OOPSLA '86 Proceedings.
	/	Daniel T. Chang "Coral: A Concurrent Object-Oriented System for Constructing and Executing Sequential, Parallel and Distributed Applications" OOPS Messenger, Apr. 1991.
	/	A. Birrell, G. Nelson, S. Owicki & E. Wobber "Network Objects" Proceedings of the 14 th ACM Symposium on Operating Systems Principles, Dec. 5–8, 1993.
	/	Jacques Ferber "Computational Reflection in Class based Object Oriented Languages" OOPSLA '89 Proceedings.
	✓	Michael Caplinger "An Information System Based on Distributed Objects" OOPSLA '87 Proceedings.
•	V /	C. Fung & M. Pong "MOCS: an Object—Oriented Programming Model for Multimedia Object Communication and Synchronization" 1994 IEEE.

C	HY	<u> </u>	T. Hase & M. Matsuda "A New Audio–Visual Control Using Message Object Transmission", 1994 IEEE, Nov. 1994.
,		\checkmark	F. Horn & J. Stefani "On Programming and Supporting Multimedia Object Synchronization" The Computer Journal, Vol. 36, No. 1, 1993.
		/	T. Little & A. Ghafoor Spatio–Temporal Composition of Distributed Multimedia Objects for Value–Added Networks, IEEE, 1991.
		√	M. Vazirgiannis & C. Mourlas "An Object-Oriented Model for Interactive Multimedia Presentations" The Computer Journal, Vol. 36, No. 1, 1993.
		✓	T. Little & A. Ghafoor "Synchronization and Storage Models for Multimedia Objects" 1990 IEEE, Apr. 1990.
		1	Cosmos Nicolaou "Architecture for Real–Time Multimedia Communications Systems", 1990 IEEE, Apr. 1990.
		\	Ralf Steinmetz "Synchronization Properties in Multimedia Systems" 1990 IEEE, Apr. 1990.
. 1845. 		/	T. Little & A. Ghafoor "Network Considerations for Distributed Multimedia Object Composition and Communication" 1990 IEEE Network Magazine, Nov. 1990.
d felle transp transp transp years retres		\checkmark	K. Smith and S. Zdonik "Intermedia: A Case Study of the Differences Between Relational and Object-Oriented Database Systems" OOPSLA '87 Proceedings.
	Dur	/	N. Yankelovich, B. Haan, N. Meyrowitz & S. Drucker "Intermedia: The Concept and the Construction of a Seamless Information Environment" Jan. 1988 IEEE.
		✓	S. Ramanathan & P. Rangan "Architectures for Personalized Multimedia" 1994 IEEE.
SB Spreads		1	Marvin Sirbu and J.D. Tygar, "Netbill: An Internet Commerce System Optimized For Network–Delivered Services", IEEE Personal Communications Magazine, pp. 34–39, Aug. 1995.
enne Franci		1	Henrik Eriksson, "Expert System As Knowledge Servers", IEEE Expert Magazine, pp. 14–19, Jun. 1996.
ener. Indexes		1	Budi Yuwono and Dik Lun Lee, "Wise: A World Wide Web Resource Database System", IEEE Transactions on Knowledge and Data Engineering, Vol. 8, No. Aug. 1996.
			H. Penny Nii "Blackboard Systems" The A1 Magazine, Summer, 1986.
			AppleShare, Apr. 1995.
			"Manual Page for Unix NFS Mount Command".
			"Manual Page for Unix FSTAB Command".
			Phil Lapsley and Brian Kantor "Network News Transfer Protocol", Feb. 1986.
			Brian Kantor and Phil Lapsley, Network News Transfer Protocol, "A Proposed Standard for the Stream–Based Transmission of News", Feb. 1986.
			M. Crispin "Network Working Group", University of Washington, Dec. 1996.
	,		Terry Gray Comparing Two Approaches to Remote Mailbox Access: IMAP vs. POP, University of Washington.
- V			Terry Garry "Message Access Paradigms and Protocols", University of Washington, Aug. 1995.

Page 7 of 7

CHY	UNIX User's Reference Manual (URM), 4.3 Berkley Software Distribution Virtual VAX-11 Version, April 1986 (including the description of a RDIST - a remote file distribution program - 4 pages).		
	UNIX System Manager's Manual (SMM), 4.3, Berkeley Software Distribution Virtual VAX-11 Version, April 1986 (including a document entitled "A Fast File System for UNIX," by Marshall McKusick et al., pages SMM 14-1 through SMM 14-15).		
	Nachbar, Daniel, "When Network File Systems Aren't Enough: Automatic Software Distribution Revisited," Proceedings of the USENIX Association Summer Conference, pp. 159-171, Atlanta, GA, June 9-13, 1986 (including a description of a method and system for updating computer files called "Track").		
	Mockapetris, P., "Domain Names - Implementation and Specification," Network Working Group, Request for Comments - 883, November 1983.		
	Saltzer, J., "On the Naming and Binding of Network Destinations," Network Working Group, Request for Comments - 1498, August 1993.		
Examiner	Date Considered 7/13/44		
citat	ol if reference considered, whether or not citation is in conformance with MPEP 609; draw line through ion if not in conformance and not considered. Include copy of this form with next communication to icant.		
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce		

The state of the s